

CC408



Security Systems

EN | Quick Reference Guide
Solution 880

BOSCH

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1. Overview

1.1 Introduction

Thank you for choosing the Solution 880 Control Panel (model CC408) for your installation. This system is extremely flexible, reliable, and easy to use. This *Quick Reference Guide*, supplied with the system, provides users with enough basic information to wire, configure, and program the system. Due to the system's many programmable features and options, obtain the complete *Installation Manual* that provides detailed information on system options, functions, and programming methods.

1.2 Programming

The programming options of the system are stored in a non-volatile EPROM. This memory holds all information during a total power loss and can be changed as many times as required.

The entire programming sequence consists of entering a location number and changing the data as required.

Use the following methods to program the system:

- Codepad
- Hand Held Programmer
- Alarm Link Software

1.3 Programming Using a Codepad

The system must be disarmed (with no active alarm) to program the system. If there is an active alarm or the system is armed, enter the code for User 1 (Default = 2580) followed by the [#] key (User Code 1 is the Master Code factory default).

To enter Installer's Programming Mode, enter the installer code (Default = 1234) followed by the [#] key. Two beeps sound and both the STAY and AWAY indicators flash simultaneously, indicating you entered Programming Mode. The codepad indicators display the current data programmed in LOCATION 000 (the first location of the Primary Telephone Number).

Move to another programming location by entering the location number followed by the [#] key. The data in the new location is displayed using the codepad indicators (for example, entering [3 4 #] moves you to LOCATION 034, the beginning of the Subscriber ID Number For Receiver 1).

To move to the next location, press the [#] key. This steps you to the next location. The data in the next location is displayed by the codepad indicators (for example, if you are currently positioned at LOCATION 034, pressing the [#] key takes you to LOCATION 035).

Step back one position by pressing the [*] key (for example, if you are currently positioned at LOCATION 35, pressing the [*] key takes you back to LOCATION 34).

To change data in the current location, enter the new value (0 to 15) followed by the [*] key. This stores the new data into the location (for example, if you enter the value [1 4 *], both the Zone 4 indicator and the MAINS indicator light to represent the new data value).

To move to the next location, press the [#] key. The data in the next location is displayed.

To exit Installer's Programming Mode, enter [9 6 0 #]. Two beeps sound and the STAY and AWAY indicators go dark. The system is returned to the disarmed state, ready for use.

Table 1 displays a quick guide to programming:

Table 1: Quick Guide to Programming

Task	Keys to Press
Enter Installer's Programming Mode	[1 2 3 4 #]
Exit Installer's Programming Mode	[9 6 0 #]
Step To Next Location	[#]
Step Back One Location	[*]
Program New Data Into Location	[Data][*] (Data = 0 to 15)
Move To Another Location	[Location Number][#]

Table 2: Codepad Indicators

Data Value	Zone 1 Indicator	Zone 2 Indicator	Zone 3 Indicator	Zone 4 Indicator	Zone 5 Indicator	Zone 6 Indicator	Zone 7 Indicator	Zone 8 Indicator	MAINS Indicator
0									
1	X								
2		X							
3			X						
4				X					
5					X				
6						X			
7							X		
8								X	
9	X							X	
10									X
11	X								X
12		X							X
13			X						X
14				X					X
15					X				X

1.4 Programming Option Bits

Use option bits to program any combination of the four different options in the one location by adding the options together. Programming a zero disables all four options.

Example

If at LOCATION 177 you only want options 1, 2, and 4, add the numbers together and the total is the number to be programmed. For example, the number to be programmed is 7 ($1 + 2 + 4 = 7$).

Table 3: Location 177 Programming Option Bits

Option	Description
1	Dialler reporting functions allowed.
2	Remote arming by telephone allowed.
4	Answering machine bypass only when armed.
8	Use Bell 103 for FSK format (disabled = CCITT V21).

2. Installer's Programming Commands

Installer's programming commands are only used in Installer's Programming Mode. Enter the command followed by the [#] key. *Table 4* shows the installer's programming commands.

Table 4: Installer's Programming Commands

Command	Description
958	Enable/disable zone status (hand-held programmer required).
959	Test programming key.
960	Exit Installer's Programming Mode.
961	Default system back to factory settings.
962	Copy panel memory to programming key.
963	Copy programming key to panel memory.
964	Erase programming key.
965	Default system for domestic dialling format.
966	Enable/disable automatic stepping of locations when programming.
999	Display software version (hand-held programmer required).

2.1 Arming the System (On)

2.1.1 AWAY Mode

Press and hold the [#] key until two beeps sound.
Or

Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

2.1.2 STAY Mode 1

1. Press and hold the [*] key until two beeps sound.
Or
2. Enter your code followed by the [*] key (for example, [2 5 8 0 *]).

2.1.3 STAY Mode 2

Press and hold the [0] key until two beeps sound.

2.1.4 Arm All Areas in AWAY Mode

This function allows a code to simultaneously arm, in AWAY Mode, all areas to which the code is assigned. This function eliminates the need to arm each area individually.

Enter your code followed by the [0] and [#] keys (for example, [2 5 8 0 0 #]).

2.2 Disarming the System (Off)

2.2.1 AWAY Mode

Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

2.2.2 STAY Mode 1

1. Press and hold the [*] key until two beeps sound (only if no alarm).
Or
2. Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

2.2.3 STAY Mode 2

1. Press and hold the 0 key until two beeps sound (only if no alarm).
Or
2. Enter your code followed by the [#] key (for example, [2 5 8 0 #]).

2.2.4 Disarm All Areas

This function allows a code to simultaneously disarm, in AWAY Mode, all areas to which the code is assigned. This function eliminates the need to disarm each area individually.

Enter your code followed by the [0] and [#] keys (for example, [2 5 8 0 0 #]).

2.3 Isolating Zones

2.3.1 Standard Isolating

1. Press the [*] key twice.
2. Enter the zone number to isolate followed by the [*] key.
Repeat Step 2 if more than one zone must be isolated.
3. Press the [#] key to exit when finished.

2.3.2 Code to Isolate

1. Press the [*] key once.
2. Enter your user code.
3. Enter the zone number to isolate followed by the [*] key.
Repeat Step 2 if more than one zone must be isolated.
4. Press the [#] key to exit when finished.

2.4 Set First Test Report

1. Enter the Installer Code followed by the [1] and [#] keys (for example, [1 2 3 4 1 #]).
2. Enter the number of days (0 to 15) to wait until the first Test Report, followed by the [#] key.

2.5 Event Memory Recall

Enter the Installer Code followed by the [8] and [#] keys (for example, [1 2 3 4 8 #]).



The last 40 events (non-partitioned) or last ten events (partitioned) display in reverse order (that is, most recent to least recent).

2.6 Walk Test Mode

1. Enter the Installer Code or Master Code followed by the [7] and [#] keys (for example, [1 2 3 4 7 #]).
2. Test each zone.
3. Press the [#] key to exit.

2.7 Satellite Siren Service Mode

Enter the Installer Code followed by the [5] and [#] keys (for example, [1 2 3 4 5 #]).

2.8 Telephone Monitor Mode (Toggle On/Off)

1. Enter the Installer Code followed by the [6] and [#] keys (for example, [1 2 3 4 6 #]).
2. To send a Test Report, press and hold the [9] key until two beeps sound.
3. When complete, repeat Step 1 to toggle Telephone Monitor Mode off.

Table 5: Telephone Monitor Mode Zone LEDs

Zone LED	Dialling Event
1	Telephone line seized
2	Dialling telephone number
3	Handshake received
4	Data being sent
5	Kiss-off received
None	Released telephone line

2.9 Add/Delete User Code/RF Keyfob

2.9.1 Add a User Code

- Enter the Master Code followed by the [1] and [#] keys (for example, [2 5 8 0 1 #]).
- Enter the user number (1 to 16) to add/change, followed by the [#] key.
- Enter the new code followed by the [#] key.

2.9.2 Add an RF Keyfob

- Enter the Master Code followed by the [1] and [#] keys (for example, [2 5 8 0 1 #]).
- Enter the user number (9 to 16) to add, followed by the [#] key.
- Enter the nine-digit RF keyfob ID number, followed by the [#] key.



You can only program User Codes 9 to 16 as RF users.

2.9.3 Delete a User Code/RF Keyfob

- Enter the Master Code followed by the [1] and [#] keys (for example, [2 5 8 0 1 #]).
- Enter the user number (1 to 16) to delete, followed by the [#] key.
- Press the [*] key to delete the user code.

2.10 Change Domestic Telephone Numbers

- Enter the Installer Code or Master Code followed by the [2] and [#] keys (for example, [1 2 3 4 2 #]).
- Enter the digits for the telephone number.
- If changing more than one telephone number, enter [* 4] (which inserts a break between phone numbers), then repeat Step 2.
- Press the [#] key to exit.

2.11 Turn Outputs On/Off

- Enter the Master Code followed by the [5] and [#] keys (for example, [2 5 8 0 5 #]).
- Enter the output number (1 to 3) to toggle on or off.
- Press the [#] key to toggle the output on, or the [*] key to toggle the output off.
- Press the [#] key to exit.

2.12 Setting Date and Time

- Enter the Master Code followed by the [6] and [#] keys (for example, [2 5 8 0 6 #]).
- Enter the day (DD), month (MM), and year (YY), followed by the hour (HH) and minute (MM).
- Press the [#] key to exit.

2.13 Day Alarm – Toggle On/Off

Press and hold the [4] key until two beeps sound. Day alarm toggles on or off.

2.14 STAY Mode 2 Zones - Program

- Enter the Installer Code or Master Code followed by the [4] and [#] keys (for example, [1 2 3 4 4 #]).
- Enter the zone number the system should automatically isolate, followed by the [*] key.
- Repeat Step 2 if more than one zone should be automatically isolated when armed in STAY Mode 2.
- Press the [#] key to exit.

2.15 Fault Analysis

- Press and hold the [5] key until two beeps sound.
- Zone indicators display FAULT condition. Refer to *Table 6*.
- Press the [#] key to exit.

Table 6: Fault Condition Indicators

Zone LED	FAULT Condition
1	Battery low
2	Date/time reset
3	Sensor watch fail
4	Horn speaker fail
5	Telephone line fail
6	EPROM fault
7	Fuse fail
8	Communication fail

2.16 Modem Call (Alarm Link)

Press and hold the [6] key until two beeps sound.

2.17 Latching Outputs (Reset)

Press and hold the [7] key until two beeps sound.

2.18 Codepad ID/Buzzer Tone

- Press and hold the [8] key until you reach the desired buzzer tone. If the system is partitioned, the keypad first displays the area to which the keypad is assigned.

Table 7: Codepad ID Assignments

Zone LED	Codepad Assignment
1	Area 1
2	Area 2
7	Master partitioned codepad

- Press the [#] key to exit.

2.19 Test Report

Press and hold the [9] key until two beeps sound.

2.20 Speaker Test

Press and hold the [1] key until two beeps sound. The speaker sounds for 2 seconds.

2.21 Bell Test

Press and hold the [2] key until two beeps sound. The piezo siren sounds for 2 seconds.

2.22 Strobe Test (Toggle On/Off)

1. To turn the strobe on, press and hold the [3] key until three beeps sound.
2. To turn the strobe off, press and hold the [3] key until two beeps sound.

2.23 Telco Arm Sequence (Call Forward On)

1. Enter the Installer Code or Master Code followed by the [3] and [#] keys (for example, [1 2 3 4 3 #]).
2. Enter [1 #].
3. Enter the Call Forward On sequence.
4. Press the [#] key to exit.

2.24 Telco Disarm Sequence (Call Forward Off)

1. Enter the Installer Code or Master Code followed by the [3] and [#] keys (for example, [1 2 3 4 3 #]).
2. Enter [2 #].
3. Enter the Call Forward Off sequence.
4. Press the [#] key to exit.

3. Programming Parameters



Shaded options indicate default values.

3.1 Telephone Programming

3.1.1 Phone Number 1 - Receiver 1

Location	000 to 015
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

3.1.2 Phone Number 2 - Receiver 1

Location	016 to 031
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

3.1.3 Handshake Tone for Receiver 1

Location	032
1	HI-LO handshake (contact ID)
2	1400 Hz (Ademco TX @ 1900 Hz)
3	2300 Hz (Sescoa TX @ 1800 Hz)
4	No handshake
5	Pager

3.1.4 Transmission Format for Receiver 1

Location	033
1	Contact ID
2	4 + 2 expressed
3	FSK 300 baud
4	Domestic
5	Basic pager

3.1.5 Subscriber ID Number for Receiver 1

Location	034 to 039
Default	0
Right justified	

3.1.6 Phone Number 1 - Receiver 2

Location	040 to 055
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

3.1.7 Phone Number 2 - Receiver 2

Location	056 to 071
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

3.1.8 Handshake Tone for Receiver 2

Location	072
1	HI-LO handshake (contact ID)
2	1400 Hz (Ademco TX @ 1900 Hz)
3	2300 Hz (Sescoa TX @ 1800 Hz)
4	No handshake
5	Pager

3.1.9 Transmission Format for Receiver 2

Location	073
1	Contact ID
2	4 + 2 expressed
3	FSK 300 baud
4	Domestic
5	Basic pager

3.1.10 Subscriber ID Number for Receiver 2

Location	074 to 079
Default	0
Right justified	

3.1.11 Dialling Format

Location	080
1	Australian DTMF
2	Australian decadic
3	Alternate DTMF and Australian decadic
4	International DTMF
5	Reversed decadic
6	Alternate DTMF and reversed decadic

3.1.12 Reserved

Location	081 to 112
Reserved	

3.1.13 Telco Arming Sequence (Call Forward On)

Location	113 to 142
Default	0

3.1.14 Telco Disarm Sequence (Call Forward Off)

Location	143 to 158
Default	0

3.1.15 Call Back Telephone Number

Location	159 to 174
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

3.1.16 Ring Count

Location	175
Default	8
0	Panel does not answer
1 to 13	Number of rings until panel answers
14	Answering machine bypass 2
15	Answering machine bypass 1

3.1.17 Telephone Line Fail Options

Location	176
Default	0
1	Display FAULT indicator when telephone line fails
2	Sound alarm when system arms
4	Sound alarm when system disarms



Options 2 and 4 must be used in conjunction with Option 1 (for example, program 1, 3, 5, or 7).

3.1.18 Dialler Options 1

Location	177
1	Dialler reporting functions allowed
2	Remote arming by telephone allowed
4	Answering machine bypass only when armed
8	Bell 103 used for FSK format (Disabled = CCITT V21)

3.1.19 Dialler Options 2

Location	178
Default	0
1	Open/Close Reports only if previous alarm
2	Open/Close Reports for STAY Mode 1 and STAY Mode 2
4	Delay siren until transmission complete
8	Extend handshake wait time from 30 seconds to 55 seconds

3.1.20 Dialler Options 3

Location	179
Default	0
1	Set DTMP dialling pulses to 1 digit/second
2	Reserved
4	Change decadic dialling to 60/40

8 Reserved

3.2 Alarm Link Options

Location	180
1	Upload/download allowed
2	Call back phone number required for upload/download
4	Exit upload/download connection on alarm
8	External modem module (CC811) required

3.3 Installer Code

Location	181 to 184	
Location	Default	
181	1	
182	2	
183	3	
184	4	

3.4 User Code Programming

3.4.1 User Codes

Location	185 to 264	
	Location	Default*
User #01	185	2
	186	5
	187	8
	188	0
	Authority Level*	10
User #02	189	10
	190 to 193	15
	Authority Level*	194
User #03	195 to 198	15
	Authority Level*	199
User #04	200 to 203	15
	Authority Level*	204
User #05	205 to 208	15
	Authority Level*	209
User #06	210 to 213	15
	Authority Level*	214
User #07	215 to 218	15
	Authority Level*	219
User #08	220	2
	221 to 223	15
	Authority Level*	224
RF User #09	225 to 228	15
	Authority Level*	229
RF User #10	230 to 233	15
	Authority Level*	234
RF User #11	235 to 238	15
	Authority Level*	239
RF User #12	240 to 243	15
	Authority Level*	244
RF User #13	245 to 248	15
	Authority Level*	249
RF User #14	250 to 253	15
	Authority Level*	254

3.4.1 continued

Location	185 to 264	Location	Default*
RF User #15	255 to 258	15	
Authority Level*	259	2	
RF User #16	260 to 263	15	
Authority Level*	264	2	

* Refer to *Section 3.4.2 User Code Authority Levels* for Authority Level descriptions.

3.4.2 User Code Authority Levels

Authority Level	Description
0	Arm/disarm
1	Arm only
2	Arm/disarm and open/close reports
3	Arm only and close reports
4	Arm/disarm and code required to isolate
6	Arm/disarm and open/close reports and code required to isolate
8	Master code and arm/disarm
10	Master code and arm/disarm and open/close reports
12	Master code and arm/disarm and code required to isolate
14	Master code and arm/disarm and code required to isolate and open/close reports

3.5 Day Alarm Zones

Location	265
Default	0
1	Zone 1
2	Zone 2
4	Zone 3
8	Zone 4

3.6 EOL Resistor Value

Location	266
0	No EOL
1	1K
2	1K5
3	2K2
4	3K3
5	3K9
6	4K7
7	5K6
8	6K8
9	10K
10	12K
11	22K
12	Reserved
13	Reserved
14	Reserved
15	Split EOL (3K3/6K8) Eight burglary zones

3.7 Zone Default Programming

3.7.1 Zone Defaults

Location	267 to 322	Location	Default
Zone #01 (Default = Delay 1)			
Zone Type	267	2	
Zone Pulse Count	268	0	
Zone Pulse Count Time	269	0	
Zone Option 1	270	1	
Zone Option 2	271	14	
Report Code	272	1	
Dialler Options	273	1	
Zone #02 (Default = Handover)			
Zone Type	274	1	
Zone Pulse Count	275	0	
Zone Pulse Count Time	276	0	
Zone Option 1	277	1	
Zone Option 2	278	14	
Report Code	279	1	
Dialler Options	280	1	
Zone #03 (Default = Handover)			
Zone Type	281	1	
Zone Pulse Count	282	0	
Zone Pulse Count Time	283	0	
Zone Option 1	284	1	
Zone Option 2	285	14	
Report Code	286	1	
Dialler Options	287	1	
Zone #04 (Default = Handover)			
Zone Type	288	1	
Zone Pulse Count	289	0	
Zone Pulse Count Time	290	0	
Zone Option 1	291	1	
Zone Option 2	292	14	
Report Code	293	1	
Dialler Options	294	1	
Zone #05 (Default = Instant)			
Zone Type	295	0	
Zone Pulse Count	296	0	
Zone Pulse Count Time	297	0	
Zone Option 1	298	1	
Zone Option 2	299	14	
Report Code	300	1	
Dialler Options	301	1	
Zone #06 (Default = Instant)			
Zone Type	302	0	
Zone Pulse Count	303	0	
Zone Pulse Count Time	304	0	
Zone Option 1	305	1	
Zone Option 2	306	14	
Report Code	307	1	
Dialler Options	308	1	

3.7.1 continued

Location	267 to 322	Location	Default
Zone #07 (Default = Instant)			
Zone Type	309	0	
Zone Pulse Count	310	0	
Zone Pulse Count Time	311	0	
Zone Option 1	312	1	
Zone Option 2	313	14	
Report Code	314	1	
Dialler Options	315	1	
Zone #08 (Default = 24-hour Tamper)			
Zone Type	316	9	
Zone Pulse Count	317	0	
Zone Pulse Count Time	318	0	
Zone Option 1	319	1	
Zone Option 2	320	12	
Report Code	321	1	
Dialler Options	322	1	

3.7.2 Zone Types

Zone Type	Description
0	Instant
1	Handover
2	Delay 1
3	Delay 2
4	Reserved
5	Reserved
6	24-hour medical
7	24-hour panic
8	24-hour hold-up
9	24-hour tamper
10	Reserved
11	Keypad
12	24-hour burglary
13	24-hour fire
14	Chime
15	Not used

3.7.3 Zone Pulse Count

Use the pulse count to program the number of pulses (0 to 15) that must register within the pulse count time to activate an alarm.

3.7.4 Zone Pulse Count Time

Option	20 ms Loop Response Time	Option	150 ms Loop Response Time
0	0.5 seconds	8	20 seconds
1	1 second	9	30 seconds
2	2 seconds	10	40 seconds
3	3 seconds	11	50 seconds
4	4 seconds	12	60 seconds
5	5 seconds	13	90 seconds
6	10 seconds	14	120 seconds
7	15 seconds	15	200 seconds

3.7.5 Zone Options 1

Option	Description
1	Lockout siren/dialler
2	Delay Alarm Report
4	Silent alarm
8	Sensor watch

3.7.6 Zone Options 2

Option	Group
1	Isolated in STAY Mode 1
2	Zone isolation allowed
4	Forced arming allowed
8	Zone Restore Report allowed

3.7.7 Zone Dialler Options

Option	Description
0	No Zone Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

3.7.8 Keypad Zone Options

The keypad zone options replace Zone Options 1 for zones programmed to operate as keypad zones.

Option	Description
0	Latching arm and disarm in AWAY Mode
1	Latching arm in AWAY Mode
2	Latching disarm from AWAY Mode or STAY Mode
4	Latching arm and disarm in STAY Mode
5	Latching arm in STAY Mode
6	Latching disarm from STAY Mode
8	Momentary arm and disarm in AWAY Mode
9	Momentary arm in AWAY Mode
10	Momentary disarm from AWAY Mode or STAY Mode
12	Momentary arm and disarm in STAY Mode
13	Momentary arm in STAY Mode
14	Momentary disarm from STAY Mode

3.8 Swinger Shutdown Programming

3.8.1 Swinger Shutdown Count for Siren

Location	323
Default	3
0	Unlimited
1 to 15	Number of times siren operates until lockout

3.8.2 Swinger Shutdown Count for Dialler

Location	324
Default	6
0	Unlimited
1 to 15	Number of times dialler operates until lockout

3.9 Zone Status Programming

3.9.1 Zone Status – Zone Bypass Reports

Location	325 to 326	Location	Default
Zone Bypass Report	325	9	
Zone Bypass Restore Report	326	8	

3.9.2 Zone Status – Trouble Reports

Location	327 to 328	Location	Default
Zone Bypass Report	327	2	
Zone Bypass Restore Report	328	3	

3.9.3 Zone Status – Sensor Watch Reports

Location	329 to 330	Location	Default
Zone Trouble Report	329	4	
Zone Trouble Restore Report	330	5	

3.9.4 Zone Status – Alarm Restore Code

Location	331
Default	14

3.9.5 Zone Status Reporting Options

Location	332
0	No zone status reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

3.10 Reports Programming

3.10.1 Open/Close Reports

Location	333 to 334	Location	Default
Open Report	333	11	
Close Report	334	12	

3.10.2 Open/Close Reporting Options

Location	335
0	No Open/Close Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

3.10.3 Codepad Duress Report

Location	336
Default	6

3.10.4 Codepad Panic Report

Location	337 to 338	Location	Default
Tens digit	337	7	
Units digit	338	15	

3.10.5 Codepad Fire Report

Location	339 to 340	Location	Default
Tens digit	339	7	
Units digit	340	14	

3.10.6 Codepad Medical Report

Location	341 to 342	Location	Default
Tens digit	341	7	
Units digit	342	13	

3.10.7 Codepad Reporting Options

Location	343
0	No Codepad Alarm Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

3.10.8 System Status – Fuse Fail Report

Location	344 to 345	Location	Default
Tens digit	344	10	
Units digit	345	3	

3.10.9 System Status – Fuse Fail Restore Report

Location	346 to 347	Location	Default
Tens digit	346	10	
Units digit	347	8	

3.10.10 System Status – AC Fail Report

Location	348 to 349	Location	Default
Tens digit	348	10	
Units digit	349	2	

3.10.11 System Status – AC Fail Restore Report

Location	350 to 351	Location	Default
Tens digit	350	10	
Units digit	351	7	

3.10.12 System Status – Low Battery Report

Location	352 to 353	Location	Default
Tens digit	352	10	
Units digit	353	1	

3.10.13 System Status – Low Battery Restore Report

Location	354 to 355	Location	Default
Tens digit	354	10	
Units digit	355	6	

3.10.14 System Status – Access Denied (Code Retry)

Location	356 to 358	Location	Default
Code retry limit (0 = unlimited)	356	6	
Tens digit	357	7	
Units digit	358	12	

3.10.15 System Status Reporting Options

Location	359
0 No Codepad Alarm Reports allowed	
1 Report to Receiver 1	
2 Report to Receiver 2	
4 Report to both Receiver 1 and Receiver 2	
8 Report to Receiver 2 only if Receiver 1 fails	

3.10.16 Test Report Time (Automatic)

Location	360 to 366	Location	Default
Hour of day (tens digit)	360	0	
Hour of day (units digit)	361	0	
Minute of day (tens digit)	362	0	
Minute of day (units digit)	363	0	
Test Report (tens digit)	364	7	
Test Report (units digit)	365	1	
Repeat interval in days	366	0	

3.10.17 Test Reporting Dialler Options

Location	367
0 No Codepad Alarm Reports allowed	
1 Report to Receiver 1	
2 Report to Receiver 2	
4 Report to both Receiver 1 and Receiver 2	
8 Report to Receiver 2 only if Receiver 1 fails	

3.11 Outputs Programming

3.11.1 Outputs

Location	368 to 397	Location	Default
Output 1 (Default = Horn speaker)			
Event Code	368	1	
Event Code	369	14	
Polarity	370	0	
Time Base	371	0	
Time Base Multiplier	372	0	
Time Base Multiplier	373	0	
Output 2 (Default = Fire alarm with verification)			
Event Code	374	2	
Event Code	375	7	
Polarity	376	10	
Time Base	377	2	
Time Base Multiplier	378	1	
Time Base Multiplier	379	5	

3.11.1 continued

Location	368 to 397	Location	Default
Strobe Output (Default = Strobe – reset after 8 hours)			
(Event Code 380 = 2, Event Code 381 = 0, Polarity 382 = 6, Time Base 383 = 4, Time Base Multiplier 384 = 0, Time Base Multiplier 385 = 8)			
Event Code	380	2	
Event Code	381	0	
Polarity	382	6	
Time Base	383	4	
Time Base Multiplier	384	0	
Time Base Multiplier	385	8	
Relay Output (Default = Sirens running)			
Event Code	386	1	
Event Code	387	15	
Polarity	388	1	
Time Base	389	0	
Time Base Multiplier	390	0	
Time Base Multiplier	391	0	
Codepad Buzzers (Default = Entry/exit warning plus day alarm)			
Event Code	392	0	
Event Code	393	13	
Polarity	394	2	
Time Base	395	1	
Time Base Multiplier	396	0	
Time Base Multiplier	397	1	

3.11.2 Event Codes

Event Code	Description
0 0	EDMSAT – satellite siren (Output 1 only)
0 1	System armed
0 2	System disarmed
0 3	Armed in STAY Mode
0 4	Armed in AWAY Mode
0 5	Pre-arming alert
0 6	Exit warning (all zones sealed) and entry warning
0 7	Exit warning
0 8	Exit warning finished
0 9	Kiss-off after end of exit time
0 10	Reserved
0 11	Entry warning
0 12	Entry warning and day alarm resetting
0 13	Exit warning and entry warning and day alarm resetting
0 14	Day alarm resetting
0 15	Day alarm latching
1 0	Day alarm enabled
1 1	Telephone line fail
1 2	Kiss-off received
1 3	Fuse fail
1 4	AC fail
1 5	Low battery
1 6	Horn speaker fail
1 7	Sensor watch alarm
1 8	Codepad medical alarm
1 9	Codepad fire alarm

3.11.2 continued

Event Code	Description
1 10	Codepad panic alarm
1 11	Codepad duress alarm
1 12	Access denied (code retries)
1 13	Reserved
1 14	Horn speaker (Output 1 only)
1 15	Sirens running
2 0	Strobe
2 1	Silent alarm
2 2	Alarm in STAY Mode
2 3	Alarm in AWAY Mode
2 4	System fault
2 5	Fire alarm (resetting)
2 6	Fire alarm (latching)
2 7	Fire alarm (verification)
2 8	Remote Control 1
2 9	Remote Control 2
2 10	Remote Control 3
2 11	Radio Control Output 1
2 12	Radio Control Output 2
2 13	Radio Control Output 1 – not in AWAY Mode
2 14	Radio Control Output 2 – not in AWAY Mode
2 15	Communications fail after three attempts
3 0	Communications fail
3 1	Dialler disabled
3 2	Dialler active (on-line)
3 3	Ring detect
3 4	Reserved
3 5	Mimic zone 1
3 6	Mimic zone 2
3 7	Mimic zone 3
3 8	Mimic zone 4
3 9	Mimic zone 5
3 10	Mimic zone 6
3 11	Mimic zone 7
3 12	Mimic zone 8
4 0	Reserved
4 1	Reserved
4 2	Reserved
4 3	Reserved
4 4	Reserved
4 5	Chime
4 6	Zone not sealed
4 7	Zone not sealed after exit time
4 8	Reserved
4 9	AC mains cycle (60 Hz or 50 Hz)
4 10	Area 1 – zone unsealed
4 11	Area 2 – zone unsealed
4 12	Reserved
4 13	Reserved
4 14	Reserved
4 15	Reserved

3.11.2 continued

Event Code	Description
5 0	Reserved
5 1	Reserved
5 2	Area 1 in alarm
5 3	Area 2 in alarm
5 4	Reserved
5 5	Reserved
5 6	Area 1 armed
5 7	Area 2 armed
5 8	Reserved
5 9	Reserved
5 10	Area 1 disarmed
5 11	Area 2 disarmed
5 12	Reserved
5 13	Reserved
5 14	Any areas armed
5 15	Any areas disarmed
6 0	Area 1 codepad data terminal
6 1	Area 2 codepad data terminal

3.11.3 Polarity (Modes)

Option	Description
0	Disabled
1	Normally open, going low
2	Normally open, pulsing low
3	Normally open, one shot low
4	Normally open, one shot low (reset)
5	Normally open, one shot low (re-trigger)
6	Normally open, latching low
7	Reserved
8	Normally low, going open
9	Normally low, pulsing open
10	Normally low, one shot open
11	Normally low, one shot open (reset)
12	Normally low, one shot open (re-trigger)
13	Normally low, latching open

3.11.4 Time Base

Option	Description
1	200 milliseconds
2	1 second
3	1 minute
4	1 hour

3.11.5 Time Base Multiplier

Enter a value between 01 and 99.

3.11.6 One Shot Mode

When you program the output polarity as one shot, the time base is multiplied by the time base multiplier. For example, if the time base = 2 and the multiplier = 05, the output operates for 10 seconds.

3.11.7 Pulsing Mode

When you program the output polarity as pulsing, the time base becomes the ON time and the multiplier becomes the OFF time. The OFF time is the time base, which is multiplied by the multiplier. For example, if you want the output to pulse 1 second ON and 5 seconds OFF, you would program time base as one and the multiplier as five.

3.12 Time Programming

3.12.1 Entry Time 1

Location	398 to 399	Location	Default
Increments of 1 second (0 to 15 seconds)	398	4	
Increments of 16 seconds (0 to 240 seconds)	399	1	

3.12.2 Entry Time 2

Location	400 to 401	Location	Default
Increments of 1 second (0 to 15 seconds)	400	8	
Increments of 16 seconds (0 to 240 seconds)	401	2	

3.12.3 Exit Time (AWAY/STAY Modes)

Location	402 to 403	Location	Default
Increments of 1 second (0 seconds to 15 seconds)	402	12	
Increments of 16 seconds (0 seconds to 240 seconds)	403	3	

3.12.4 Entry Guard Time For STAY Mode

Location	404 to 405	Location	Default
Increments of 1 second (0 seconds to 15 seconds)	404	0	
Increments of 16 seconds (0 seconds to 240 seconds)	405	0	

3.12.5 Delay Alarm Report Time

Location	406 to 407	Location	Default
Increments of 1 second (0 seconds to 15 seconds)	406	0	
Increments of 16 seconds (0 seconds to 240 seconds)	407	0	

3.12.6 Sensor Watch Time

Location	408 to 409	Location	Default
Increments of days (tens digit)	408	0	
Increments of days (units digit)	409	0	

3.12.7 Codepad Lockout Time

Location	410
Default	0
0	No lockout
1 to 15	Increments of 10 seconds (10 seconds to 150 seconds)

3.12.8 Siren Run Time

Location	411
Default	5
0	No siren time
1 to 15	Increments of 1 minute (1 minute to 15 minutes)

3.12.9 Siren Sound Rate

Location	412
Default	7
0 to 15	0 = slowest frequency 15 = fastest frequency

3.12.10 Auto Arming Pre-Alert Time

Location	413
Default	1
0	No pre-alert time
1 to 15	Increments of 5 minutes (5 minutes to 75 minutes)

3.12.11 Auto Arming Time

Location	414 to 417	Location	Default
Hour of the day (tens digit)	414	0	
Hour of the day (units digit)	415	0	
Minute of the day (tens digit)	416	0	
Minute of the day (units digit)	417	0	

3.12.12 Auto Disarming Time

Location	418 to 421	Location	Default
Hour of the day (tens digit)	418	0	
Hour of the day (units digit)	419	0	
Minute of the day (tens digit)	420	0	
Minute of the day (units digit)	421	0	

3.12.13 Kiss-Off Wait Time

Location	422
Default	3
Increments of 500 milliseconds (500 ms to 8 seconds)	

3.13 Reserved

Location	423
Default	0

3.14 System Options Programming

3.14.1 System Options 1

Location	424
1	Bosch Security Systems smart lockout allowed
2	Horn speaker monitor
4	Strobe indication for radio arm/disarm
8	Horn speaker beeps for radio arm/disarm

3.14.2 System Options 2

Location	425
Default	0
1	Codepad panic to be silent
2	Codepad fire to be silent
4	Codepad medical to be silent
8	Access denied (code retries) to be silent

3.14.3 System Options 3

Location	426
1	AC fail after 1 hour (Disabled = after 2 minutes)
2	Ignore AC fail
4	Pulse count handover allowed
8	Handover delay to be sequential

3.14.4 System Options 4

Location	427
Default	0
1	Panel to power up disarmed (if power reset)
2	Arm/disarm tracking on power up
4	Internal crystal to keep time
8	Radio keyswitch interface, night arm station, or RE005 installed

3.15 Consumer Options Programming

3.15.1 Consumer Options 1

Location	428
Default	0
1	Test reports only when armed
2	Test report after siren reset
4	Auto arm in STAY Mode 1
8	STAY indicator to display day alarm status

3.15.2 Consumer Options 2

Location	429
1	Codepad display extinguish after 60 seconds
2	Single button arming allowed (AWAY/STAY Modes 1 and 2)
4	Single button disarming allowed (STAY Modes 1 and 2)
8	Alarm memory reset on disarm

3.15.3 Consumer Options 3

Location	430
1	Codepad fault beeps allowed
2	Use digit 3 for codepad duress alarm (instead of digit 9)
4	Alarms activate sirens and strobe outputs in STAY Modes 1 and 2
8	Reserved

3.16 Radio Input Options

Location	431
Default	0
1	Radio receiver (WE800)
2	Latching keyswitch input
3	Momentary keyswitch input
4	Reserved

3.17 Partitioning

3.17.1 Partitioning Options 1

Location	432
Default	0
1	First to open/last to close reporting allowed
2	Area 1 codepad connected to data terminal
4	Request sirens from any area allowed
8	Master codepad to display AUX indicator when on-line

3.17.2 Partitioning Options 2

Location	433
Default	0
1	Lock Area 1 to Receiver 1 and Lock Area 2 to Receiver 2
2	User codes allowed to arm/disarm both areas at same time ([code][0 #])
4	Reserved
8	Reserved

3.18 Zone Allocation Programming

3.18.1 Zone Allocations for Area 1

Location	434 to 441	Location	Default
Zone 1 LED – Area 1 codepad	434	0	0
Zone 2 LED – Area 1 codepad	435	0	0
Zone 3 LED – Area 1 codepad	436	0	0
Zone 4 LED – Area 1 codepad	437	0	0
Zone 5 LED – Area 1 codepad	438	0	0
Zone 6 LED – Area 1 codepad	439	0	0
Zone 7 LED – Area 1 codepad	440	0	0
Zone 8 LED – Area 1 codepad	441	0	0

3.18.2 Zone Allocations for Area 2

Location	442 to 449	Location	Default
Zone 1 LED – Area 2 codepad	442	0	0
Zone 2 LED – Area 2 codepad	443	0	0
Zone 3 LED – Area 2 codepad	444	0	0
Zone 4 LED – Area 2 codepad	445	0	0
Zone 5 LED – Area 2 codepad	446	0	0
Zone 6 LED – Area 2 codepad	447	0	0
Zone 7 LED – Area 2 codepad	448	0	0
Zone 8 LED – Area 2 codepad	449	0	0

3.19 User Code Area Assignment Programming

3.19.1 User Code Area Assignment

Location	450 to 465	Location	Default
User Code 1	450	0	
User Code 2	451	0	
User Code 3	452	0	
User Code 4	453	0	
User Code 5	454	0	
User Code 6	455	0	
User Code 7	456	0	
User Code 8	457	0	
User Code 9	458	0	
User Code 10	459	0	
User Code 11	460	0	
User Code 12	461	0	
User Code 13	462	0	
User Code 14	463	0	
User Code 15	464	0	
User Code 16	465	0	

3.19.2 Area Assignment Options

Option	Description
0	User Code not assigned
1	User Code assigned to Area 1
2	User Code assigned to Area 2
3	User Code assigned to both Area 1 and Area 2

3.20 Ring Burst Time (V1.07+)

Location	748 to 749	Location	Default
Increments of 5 milliseconds (0 milliseconds to 75 milliseconds)	748	4	
Increments of 80 milliseconds (0 milliseconds to 1200 milliseconds)	749	6	

3.21 Default Options

Location	900
0	Defaulting system allowed
15	Defaulting system disabled

3.22 System Time

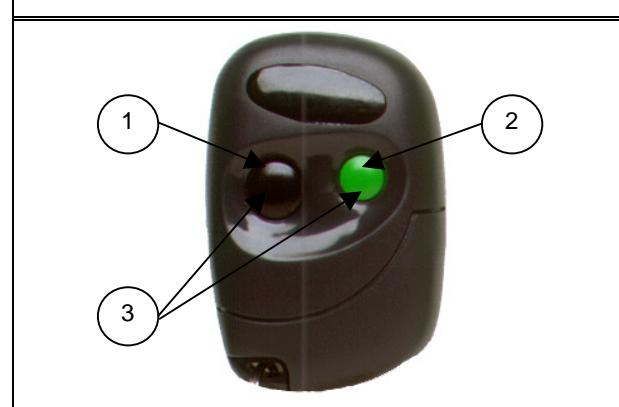
Location	901 to 904	Location	Default
Hour of the day (tens digit)	901	0	
Hour of the day (units digit)	902	0	
Minute of the day (tens digit)	903	0	
Minute of the day (units digit)	904	0	

3.23 System Date

Location	905 to 910	Location	Default
Day of the month (tens digit)	905	0	
Day of the month (units digit)	906	1	
Month of the year (tens digit)	907	0	
Month of the year (units digit)	908	1	
Current year (tens digit)	909	0	
Current year (units digit)	910	1	

4. Two-Channel and Four-Channel Keyfobs

Figure 1: RE012 – 2 Channel Keyfob Transmitter

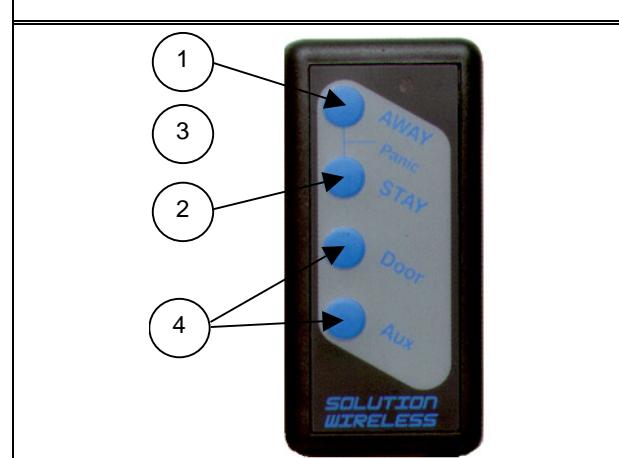


1 – Button 1: Arm or disarm in AWAY Mode

2 – Button 2: Arm or disarm STAY Mode

3 – Buttons 1 and 2: Press both buttons at same time to activate Panic alarm.

Figure 2: RE013 – 4 Channel Keyfob Transmitter



1 – Button 1: Arm or disarm in AWAY Mode

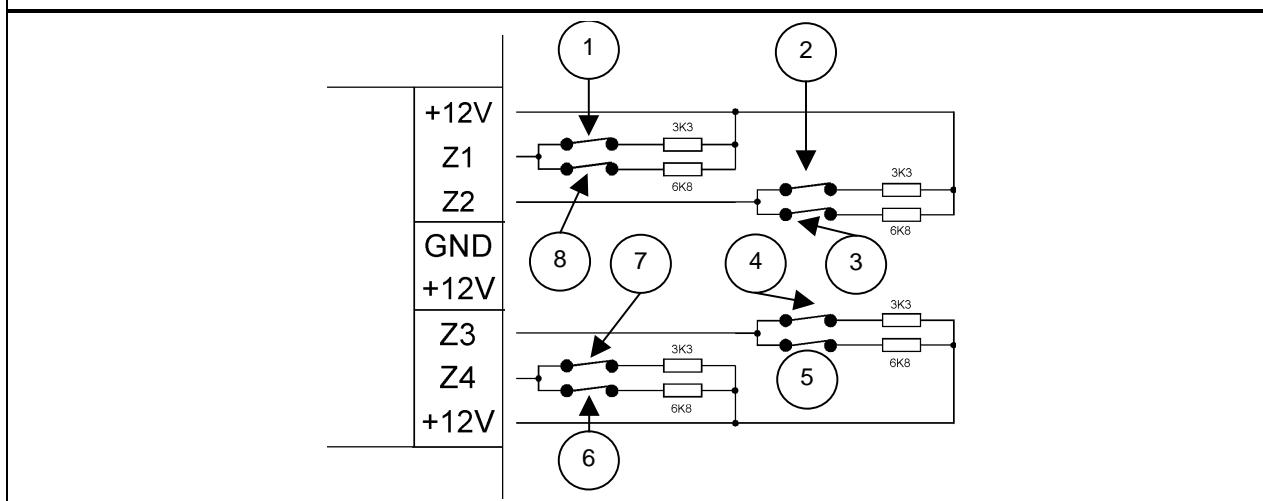
2 – Button 2: Arm or disarm in STAY Mode

3 – Buttons 1 and 2: Press both buttons at same time to activate Panic alarm.

4 – Buttons 3 and 4: Your security company can program these buttons for optional operation, such as operating a garage door.

5. Wiring Diagrams

Figure 3: Split EOL Wiring Diagram



1 – Zone 1

2 – Zone 2

3 – Zone 6

4 – Zone 3

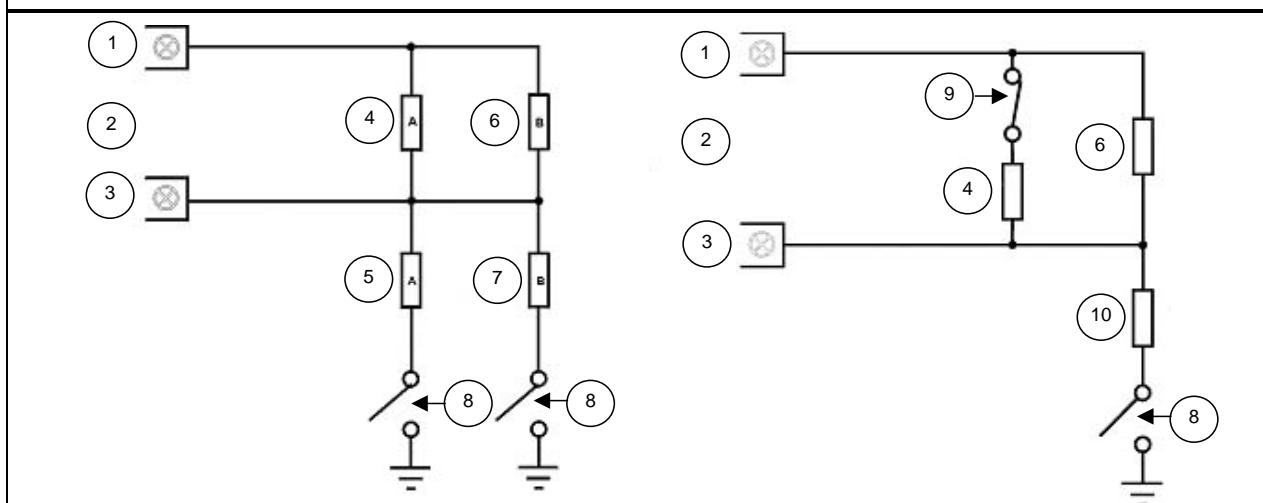
5 – Zone 7

6 – Zone 8

7 – Zone 4

8 – Zone 5

Figure 4: Split EOL Wiring Diagrams Using N/O Contacts



1 – +12 V

2 – Zone input

3 – Zone

4 – EOL 3K3

5 – EOL 1K5

6 – EOL 6K8

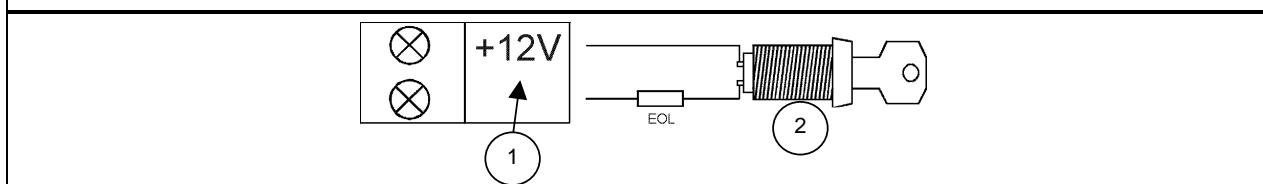
7 – EOL 4K7

8 – N/O

9 – N/C

10 – 4K7

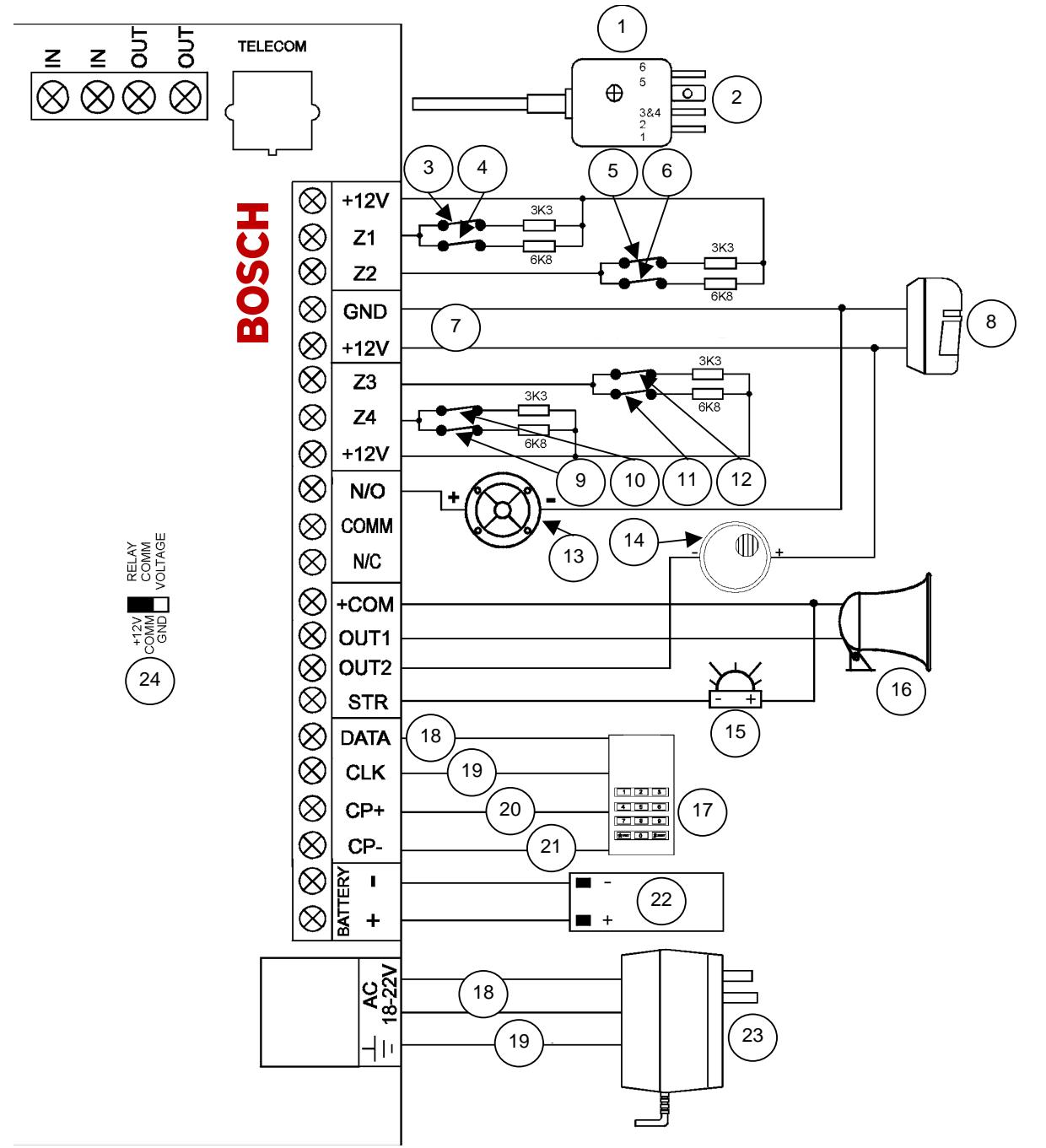
Figure 5: Wiring Diagram for Keyswitch Zone



1 – Zone

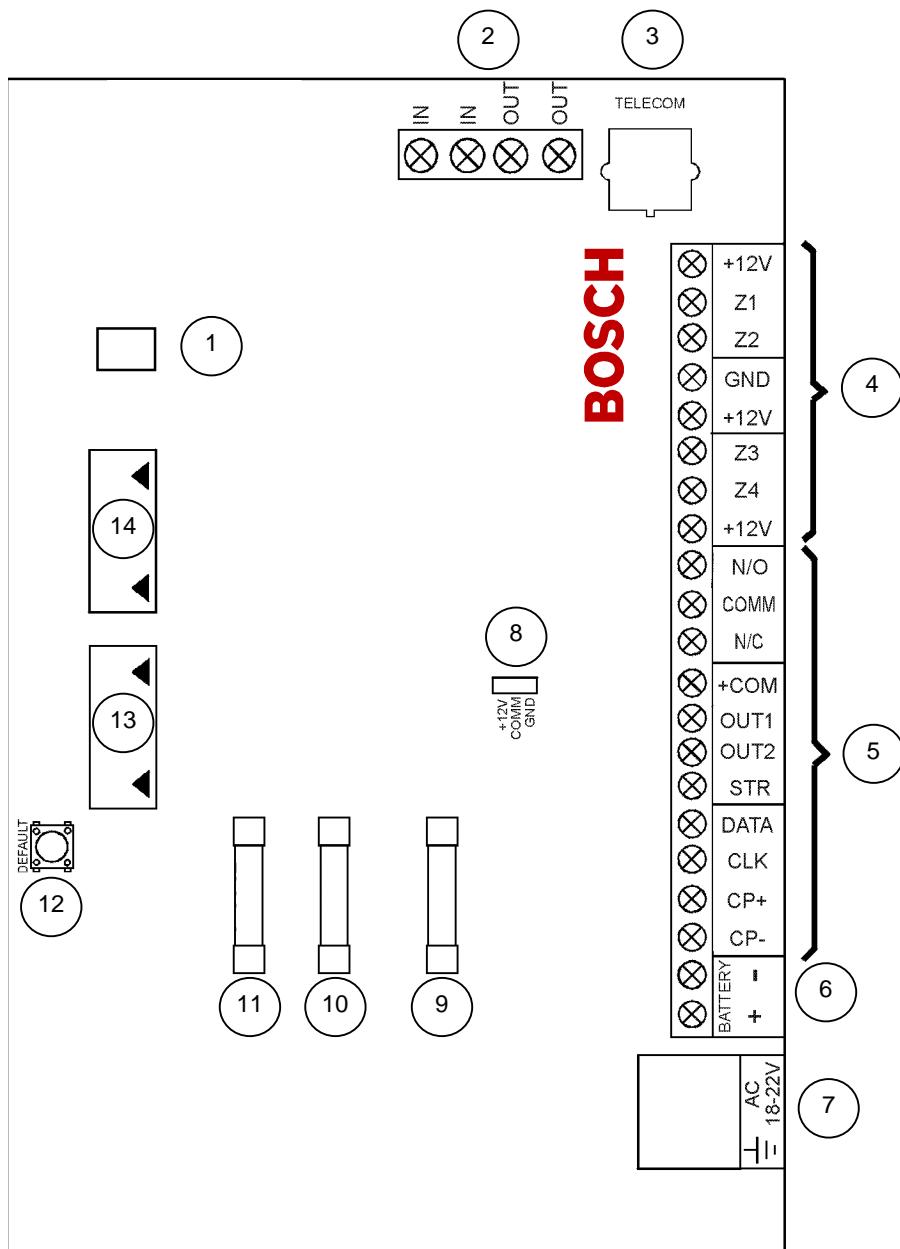
2 – Keyswitch (momentary/toggle)

Figure 6: Solution 844 Wiring Diagram

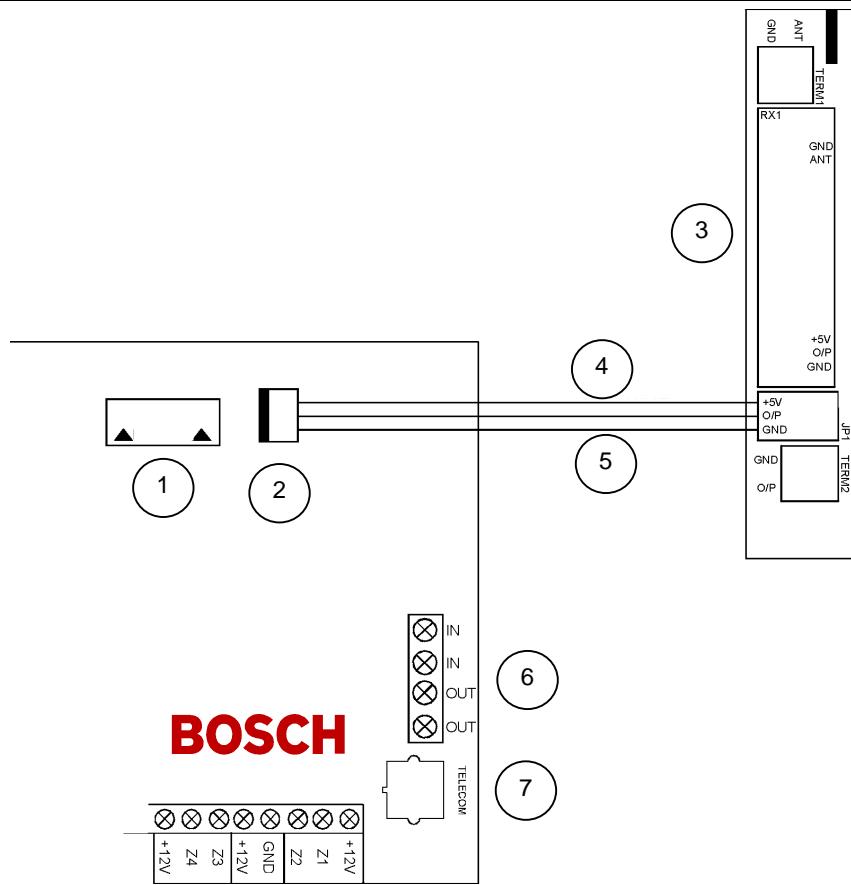


- 1 - 605 plug
 2 - 6 (Red) Telecom line (street)
 3 and 4 Not used
 5 (Yellow) Internal phone line
 6 - Zone 6
 7 - Power to external equipment: 12 V @ 400 mA
 8 - PIR
 9 - Zone 8
 10 - Zone 4
 11 - Zone 7
 12 - Zone 3
 13 - Piezo siren
 14 - Smoke detector

- 15 - Strobe
 16 - Horn speaker
 17 - Codepad
 18 - Yellow
 19 - Green
 20 - Red
 21 - Black
 22 - Battery
 23 - 18 VAC 1.3 A plug pack (TF008)
 24 - Link between +12 V and Comm

Figure 7: Solution 844 Component Overlay

- 1 - RF receiver interface connection
- 2 - Termination for phone line:
IN (both terminals) – Telecom line (street)
OUT (both terminals) – Internal phone line
- 3 - Socket for Telecom lead connection
- 4 - Zone termination strip
- 5 - Output termination strip
- 6 - Battery input
- 7 - Plug pack input (Bosch TF008)
- 8 - Relay contact select
- 9 - 1 A codepad fuse
- 10 - 1 A accessory fuse
- 11 - 3 A battery fuse
- 12 - Default switch
- 13 - Programming key or hand held programmer
plugs in here
- 14 - Auxiliary module – phone amplifier or
direct link cable

Figure 8: Solution Wireless On/Off Interface

1 – Phone amplifier or direct link cable

2 – Receiver interface connection

3 – Solution wireless on/off interface

4 – Red

5 – Black

6 – Termination for phone line

7 – Socket for telecom lead connection

5.1 Codepad Connections for Partitioning

If the CP-5 Area Addressable (CP500A) codepad is assigned to Area 1, DIP Switch 1 on the back of the remote codepad must be in the ON position. The following locations for Output 1 must be programmed:

[LOCATION 368 = 6, 369 = 0]

If the CP-5 Area Addressable (CP500A) codepad is assigned to Area 2, DIP Switch 2 on the back of the remote codepad must be in the ON position. The following locations for Output 1 must be programmed:

[LOCATION 368 = 6, 369 = 1]

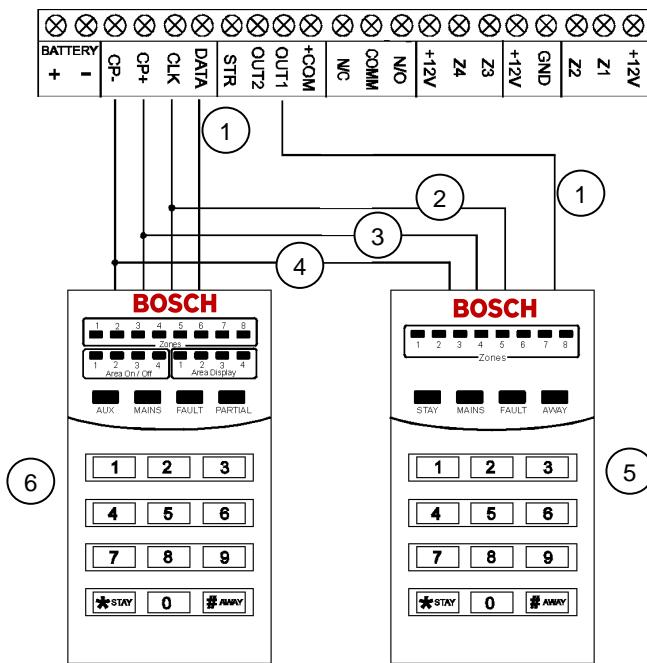


A master partitioned codepad requires all DIP switches to be set to the ON position.

The following DIP Switch settings and locations must be programmed for the two CP-5 Area Addressable (CP500A) codepads to function correctly:

- AREA 1 CODEPAD – DIP Switch 1 on the back of the remote codepad must be in the ON position. The following location also must be programmed:
[LOCATION 432, Option bit 2 must be enabled]
- AREA 2 CODEPAD - (Output 1) – DIP Switch 2 on the back of the remote codepad must be in the ON position. The following locations for Output 1 must be programmed:
[LOCATION 368 = 6, 369 = 1]

Figure 9: Connections for CP-5 Master Partitioned (CP500P) Codepad and CP-5 Area Addressable (CP500A) Codepad



1 - DATA

4 - GND

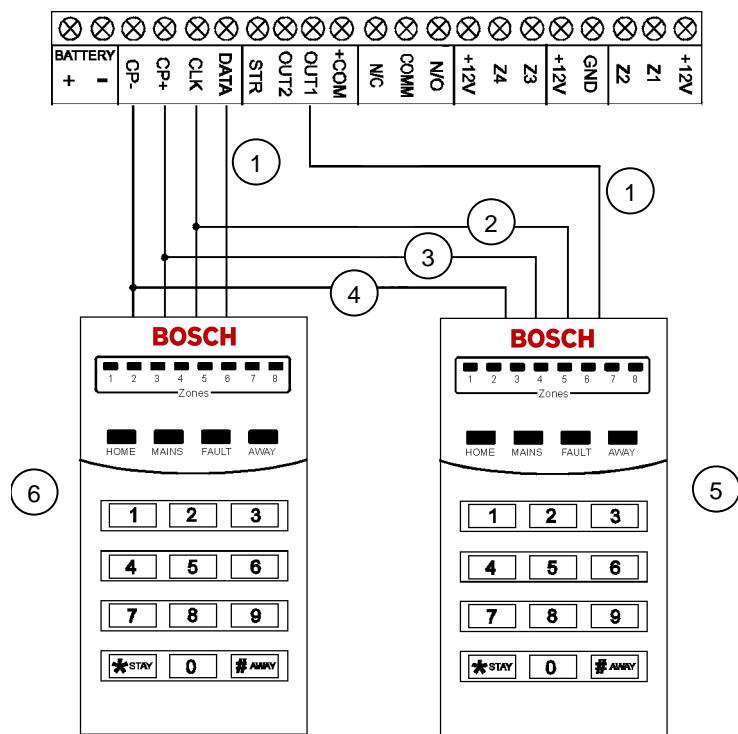
2 - CLK

5 - Addressable Area Codepad

3 - +12V

6 - Master Partitioned Codepad

Figure 10: Connections for Two CP-5 Eight Zone Area Addressable (CP500A) Codepads



1 - DATA

4 - GND

2 - CLK

5 - Area 2 Codepad

3 - +12V

6 - Area 1 Codepad

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4998152468B
S1920057
Issue 1.62

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